

Title (en)
Smoothing device

Title (de)
Glättvorrichtung

Title (fr)
Appareil de lissage

Publication
EP 1340608 B2 20110420 (DE)

Application
EP 02003867 A 20020221

Priority
EP 02003867 A 20020221

Abstract (en)
[origin: EP1340608A1] Apparatus for smoothing plastic film or sheet has a smoothing roller (1) which is driven by a motor whose rotor (5) is directly attached to the roller drive shaft (6).

IPC 8 full level
B29C 59/04 (2006.01); **D21F 7/02** (2006.01); **D21G 1/00** (2006.01)

CPC (source: EP US)
D21F 7/02 (2013.01 - EP US); **D21G 1/0006** (2013.01 - EP US); **B29K 2995/0073** (2013.01 - EP US)

Citation (opposition)
Opponent :

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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1340608 A1 20030903; EP 1340608 B1 20040630; EP 1340608 B2 20110420; AT E270182 T1 20040715; CN 1308210 C 20070404; CN 1439589 A 20030903; DE 50200576 D1 20040805; DK 1340608 T3 20041004; ES 2219593 T3 20041201; ES 2219593 T5 20110609; PT 1340608 E 20041029; US 2004000826 A1 20040101; US 6781271 B2 20040824

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EP 02003867 A 20020221; AT 02003867 T 20020221; CN 03105485 A 20030221; DE 50200576 T 20020221; DK 02003867 T 20020221; ES 02003867 T 20020221; PT 02003867 T 20020221; US 45808403 A 20030610